

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A data networking protocol comprising:
one or more control commands employed by a respective network element to establish and manage simultaneous wireless communication sessions of a single end-user terminal in a data network; and
one or more mobility management attribute-value pair(s) (AVP) employed by the network element to define one or more parameters of the accompanying control command, to facilitate exchange of mobility information in the data network, and to facilitate secure mobility of wireless communication sessions.
2. (Original) A data networking protocol according to claim 1, wherein the mobility management attribute-value pair(s) include an attribute value pair denoting whether an incoming call request is a new call or a handoff.
- 3-5. (Canceled)
6. (Previously Presented) A data networking protocol according to claim 1, wherein the mobility management attribute-value pair(s) include an authentication AVP selectively invoked by one or more network elements participating in a point-to-point communication session to authenticate one or more network elements during a handoff of a communication session from one network element to another network element.
7. (Previously Presented) A data networking protocol according to claim 6, wherein the authentication AVP is employed to authenticate an identity of a subscriber unit initiating handoff of a communication session from one servicing basestation to another servicing basestation.

8. (Previously Presented) A data networking protocol according to claim 1, wherein the mobility management attribute-value pair(s) include a certification AVP selectively invoked by a basestation element of a point-to-point communication session to obtain a security certificate from a network element to authenticate the basestation to requesting subscriber(s).

9. (Original) A data networking protocol according to claim 8, wherein the CERT AVP is selectively invoked by the basestation to a network access server (NAS), which solicits an updated certificate from a third-party certification agency on behalf of and for delivery to the basestation.

10. (Canceled)

11. (Previously Presented) A communication signal generated by a network element participant to a point-to-point communication session, the communication signal comprising a data networking protocol according to claim 1, wherein the data networking protocol includes one or more mobility management attribute-value pair(s) enabling mobility management among and between network elements associated with the point-to-point communication session.

12. (Previously Presented) The data networking protocol of claim 1, wherein the mobility information comprises at least a portion of a communication session identifier that follows a communication session as it traverses through mobile communication link handoffs, the communication session identifier at least in part to implement mobility security features.

13. (Previously Presented) The data networking protocol of claim 12, wherein the communication session identifier is used to authenticate a mobile communication link handoff.

14. (Previously Presented) The data networking protocol of claim 1, wherein the attribute-value pairs comprise an extension of the Layer Two Tunneling Protocol (L2TP) and are employed to define one or more parameters of one or more existing L2TP control commands.

15. (Previously Presented) A data networking protocol comprising:
one or more control commands employed by a respective network element to establish and manage a wireless communication session in a data network; and
one or more mobility management attribute-value pair(s) (AVP) employed by the network element to define one or more parameters of the accompanying control command and to facilitate exchange of mobility information in the data network, wherein the mobility management attribute-value pair(s) include an attribute-value pair for each of a deterministic element and a random element of a communication session identifier.

16. (Previously Presented) A data networking protocol according to claim 15, wherein the mobility management attribute-value pair(s) include a COOKIE AVP to communicate the deterministic element of the communication session ID between one or more elements of a point-to-point communication session.

17. (Previously Presented) A data networking protocol according to claim 15, wherein the mobility management attribute-value pair(s) include a K_n AVP to communicate the random element of the communication session ID between one or more elements of a point-to-point communication session.

18. (Previously Presented) A data networking protocol according to claim 15, wherein the mobility management attribute-value pair(s) include an authentication AVP selectively invoked by one or more network elements participating in a point-to-point communication session to authenticate one or more network elements during a handoff of a communication session from one network element to another network element.

19. (Previously Presented) A data networking protocol according to claim 18, wherein the authentication AVP is employed to authenticate an identity of a subscriber unit initiating handoff of a communication session from one servicing basestation to another servicing basestation.

20. (Previously Presented) A machine accessible storage medium comprising a plurality of executable instructions which, when executed by an accessing machine, incorporate into a communication stack of the accessing machine at least one or more mobility management attribute-value pair(s) (AVP) employed by the network element to define one or more parameters of the accompanying control command and to facilitate exchange of mobility information in the data network, wherein the mobility management attribute-value pair(s) include an attribute-value pair for each of a deterministic element and a random element of a communication session identifier.

21. (Previously Presented) The machine accessible storage medium of claim 20, wherein the mobility management attribute-value pair(s) include a COOKIE AVP to communicate the deterministic element of the communication session ID between one or more elements of a point-to-point communication session.

22. (Previously Presented) The machine accessible storage medium of claim 20, wherein the mobility management attribute-value pair(s) include a K_n AVP to communicate the random element of the communication session ID between one or more elements of a point-to-point communication session.

23. (Previously Presented) The machine accessible storage medium of claim 20, wherein mobility management attribute-value pair(s) include an authentication AVP selectively invoked by one or more network elements participating in a point-to-point communication session to authenticate one or more network elements during a handoff of a communication session from one network element to another network element.

24. (Previously Presented) The machine accessible storage medium of claim 23, wherein the authentication AVP is employed to authenticate an identity of a subscriber unit initiating handoff of a communication session from one servicing basestation to another servicing basestation.